



The
Geological
Society

Hybrid Conference

20 – 21 November 2025

The Fookes Meeting for Engineering Geology

CONFERENCE PROGRAMME

Supported by



Ebor

COWI



Hearn
Geoserve
Engineering Geological, Geomorphological
and Geohazard Assessment Services

Thursday 20 th November 2025		
0900-0930	Registration opens	
0930-0945	Welcome Address	
0945-1030	Keynote: Contours and curves: charting the topography of a career in geoscience	Maria Holloway-Strong, <i>AtkinsRéalis</i>
1030-1100	Tea & coffee break	
SESSION ONE		
1100-1115	A case study assessment of debris flow processes and potential impact on the A83, Lower Glen Croe	Frances Crabb, <i>Jacobs</i>
1115-1130	Engineering Geological Characterization of Hydrothermally Altered Materials in Dam Foundations	Sarah Jacob, <i>BGC Engineering Inc.</i>
1130-1145	A review of highway chalk cut slope performance and hazards in the Southeast of England	Emily Prosser, <i>Mott MacDonald</i>
1145-1200	Distinguishing mudstone, residual mudstone and subglacial till in CPTu and seismic data	Scott Adam Smith, <i>Norwegian Geotechnical Institute</i>
1200-1215	Q&A Session	
1215-1245	Poster presenters panel session	Amanda Norman, <i>University of Leeds</i> , Natalie Stevenson, <i>Jacobs</i> , Adam Kirby, <i>Geowynd</i>
1245-1345	Lunch and posters	
SESSION TWO		
1345-1400	B4069 Lyneham Banks Landslide Remediation – Improving the georesilience of the UK's wonkiest road	Vicky Corcoran, <i>AtkinsRéalis</i> & Christopher Cox, <i>AtkinsRéalis</i>
1400-1415	“How do you recover from no recovery”, overcoming challenges posed by incomplete exploratory hole logs.	Jordan Sinnott, <i>SYSTRA Ltd</i>
1415-1430	Engineering Geologists in the Drive for Efficient, Net Zero Electrical Infrastructure	Thomas Kettle, <i>Mott MacDonald</i>
1430-1445	Q&A session	
1445-1515	Poster presenters panel session	Joshua Blacker, <i>Canal & River Trust</i> , Archie Bunney, <i>SYSTRA (UK & Ireland)</i> , Tobias Alexander Darke, <i>Durham University</i>
1515-1530	Tea & coffee break	
SESSION THREE		
1530-1545	Playing your Hand - From Geomorphology to the Baize	Peter Phipps
1545-1730	Evening drinks & posters	

Friday 21 st November 2025		
0830-0900	Arrival, tea & coffee	
SESSION FOUR		
0900-0930	Keynote: Keeping feet on the ground: engineering geological and geomorphological mapping as an essential component of landslide hazard assessments and ground engineering – case studies from mountainous terrain in Asia-Pacific'	Jonathan Hart, GeoRisk Solutions Limited
0930-0945	Total stress informed engineering geomorphology, and weathering profiles, as tools to better understand hydrological processes to inform landslide modelling in the Idukki region of Kerala, Southern India.	Vanessa J Banks, <i>British Geological Survey</i>
0945-1000	Integrated Approach to Investigate Seawater Intrusion into Coastal Freshwater Aquifers Using Electrical Resistivity Tomography and Vertical Electrical Sounding: A Case Study in Cape Coast, Ghana	Emmanuel Anthony Kingspride Amissah, <i>Technical University of Darmstadt (v)</i>
1000-1015	Landslide Hazard Design Event Determination Using Magnitude-Cumulative Frequency Method: Observations from Case Studies in Hong Kong	Wenzhu Hou, <i>BGC Engineering Inc.</i>
1015-1030	Ventnor, Isle of Wight: the challenges of geology, landslides & climate on the town and its residents	Stephen Fort, <i>AtkinsRéalis</i>
1030-1040	Q&A	
1040-1100	Tea & coffee break	
SESSION FIVE		
1100-1145	Keynote: Considering resilience in design for linear infrastructure subject to the effects of natural hazards	Jean D Hutchinson, <i>Queen's University</i>
1145-1200	Well gassing during dewatering works in central London	Toby Roberts, <i>WJ Groundwater</i>
1200-1215	Landslide hazard assessment and mitigation: A case study of pipeline risk reduction from a mudslide in northeast Türkiye	David Waring, BGC Engineering.
1215-1230	Coire Glas – energising rock engineering	Jessica Smith, <i>SSE (v)</i>
1230-1245	Use of Drones for Enhanced Fieldwork: Revolutionising Field Mapping, Geomorphology and landslide monitoring.	Adam Dargan, <i>AtkinsRéalis</i>
1245-1300	Q&A	
1300-1400	Lunch & posters	
SESSION SIX		
1400-1430	Keynote: Digital Foundations: My Career Journey from Ground Models to Nuclear Digital Solutions	Stephanie Boffey-Rawlings, <i>AtkinsRealis</i>
1430-1445	Hollowing out a mountain (again): the Cruachan Expansion project	Cat Hirst, <i>COWI UK Ltd</i>
1445-1500	Applying Total Geological History to Offshore Windfarm Development & Design-focused Ground Modelling	Andrew Hart, <i>AtkinsRéalis</i>
1500-1515	Engineering Geology in Tunnelling – More than Just Numbers?	Mark Diederichs, <i>Queen's University</i>
1515-1530	Q&A	
1530-1600	How did Peter Fookes shape your career?	Gareth Hearn, <i>Hearn Geoserve</i> , Mark Lee, <i>Ebor</i>
1600-1630	Closing Remarks, posters, tea & coffee	

Investigating Thermal-Hydro-Mechanical Coupling in Mudstones under Varied Thermal Cycles	Amanda Norman, <i>University of Leeds</i>
The use of Digital Geoscience on the C23 Section of the HS2	Gareth Barker, <i>EKFB</i>
Geodigital methods for assessing coastal erosion risk to critical infrastructure at Point Loma, San Diego	Natalie Stevenson, <i>Jacobs</i>
Preliminary feasibility analysis for offshore wind developments in the geologically complex Galerazamba Gap offshore of northern Colombia	Adam Kirby, <i>Geowynd</i>
Case study of an earth structure failure on an ageing canal network.	Joshua Blacker & Tom Birch, <i>Canal & River Trust</i>
Geological Realism in Slope Stability Analysis: Three-Dimensional Geological Modelling Compared to Worst-case Design Ground Models	Archie Bunney, <i>SYSTRA (UK & Ireland)</i>
The Origin and Genesis of the Glacial Deposits (Tills) of a Loch Lomond Stadial Glacier, and the Implications for Glacier Reconstructions: Glen Varragill, Isle of Skye	Tobias Alexander Darke, <i>Durham University</i>
Case study of the use of the observational approach to rock excavation for the STEP Abdelmoumen Project in Morocco	Thomas Chauvin, <i>Vinci Construction Grands Projects</i>
Cliffs of Moher Geohazard Assessment	Marie Fleming, <i>Arup</i>
The examination of periglacial shear surfaces and discontinuities in weathered mudstones	Giles Hemmings, <i>Eiffage-Kier-Ferrovial-BAM JV (EKFB)</i>
From concepts and comprehension to chaotic but confident and dynamic terrain evaluation: a quantum of relief	Paul Nathanail, <i>LQM</i>
Engineering the Anthropocene - From Desk Study to Construction on Historical Landfills - Case Study Slyfield Industrial Estate Access Road	Bridgette Maphosa, <i>AECOM</i>

Co-Convenors:

Ruth Allington – Allington Collaborative Problem Solving Ltd

Anna Morley - Arup

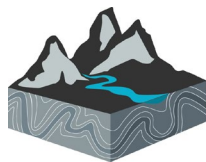
Gareth Hearn – Hearn Geoserve

Helen Reeves - Jacobs

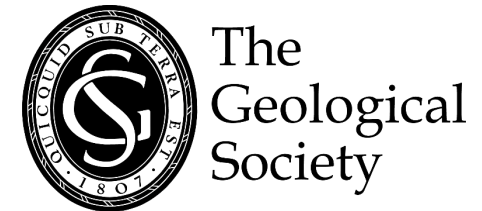
Mark Lee – Ebor

Matt Owen – Global Maritime

Thank you to our Sponsors



**Hearn
Geoserve**
Engineering Geological, Geomorphological
and Geohazard Assessment Services



The Geological Society of London
Burlington House, Piccadilly, London, W1J 0BG, UK
Registered Charity Number: 210161